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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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November 21, 1988

TO: John Blake, State Lands

FROM: Scott Johnson, Reclamation Engineer

RE: Reclamation Estimate for the White River Shale Project,  
Federal Tracts Ua and Ub, Uintah County, Utah

Attached is the estimate for final reclamation of the White River Shale Mine and facilities. The \$1,725,000 cost includes the following:

- a) Demolition and disposal of all buildings, tanks, and other surface structures;
- b) Breakup and burial of all concrete foundations, portals and tanks;
- c) Removal of power lines, poles and substations;
- d) Plugging of all monitoring and water wells;
- e) Sealing the birds nest aquifer zone in both the decline and shaft;
- f) Sealing the shafts and decline at the surface;
- g) Regrading of all surface disturbance to blend in with surrounding topography;
- h) Revegetation of entire disturbed area (138 acres).

Also attached is a map that shows the disturbed areas and associated acreages. The reclamation work begins at the entrance gate to the property, and includes the complete reclamation of all roads beyond this gate. If you would like changes or additions made to this reclamation estimate, let me know. Also, let me know how I can help in the cost estimating for keeping the mine open.

jb  
Attachment  
cc: Lowell Braxton  
MN17/17



# Reclamation Estimate for the White River Shale Project

Prepared By  
Utah State Division of Oil, Gas and Mining  
November 17, 1988

Description	Quantity	Unit	\$/Unit	Total Cost (\$)
Remove Buildings				
Gut and dispose of interiors	9,400	Square Feet	<del>4.70</del>	44,200
Demolish building frameworks	6,500	Cubic Yards	<del>4.90</del>	31,900
Subtotal				76,100
Breakup Concrete Foundations and Pads	40,000	Square Feet	3.80	152,000
Remove Power Lines		Lump Sum		35,000
Plug Monitoring Wells	20	Wells	8,000.00	160,000
Plug Water Wells	2	Wells	8,000.00	16,000
Mine Sealing				
Seal Decline Aquifer Zone - Concrete	1,350	Cubic Yards	80.00	108,000
- Bentonite Mix	4,700	Cubic Yards	19.00	89,300
Seal Decline A 100' Below Vent Raise		Lump Sum		2,400
Fill Decline A to Seal	3,500	Cubic Yards	0.60	2,100
Fill Decline Vent Raise	2,500	Cubic Yards	0.60	1,500
				203,300
Fill Intake Shaft Bottom	10,500	Cubic Yards	0.60	6,300
Break-up Collar in Aquifer Zone	13,200	Square Feet	3.80	50,200
Seal Shaft Aquifer Zone - Concrete	1,000	Cubic Yards	80.00	80,000
- Bentonite Mix	4,000	Cubic Yards	16.00	64,000
Fill Shaft Above Aquifer Zone	15,000	Cubic Yards	0.60	9,000
				209,500
Subtotal				412,800



# Reclamation Estimate for the White River Shale Project

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(continued)

Description	Quantity	Unit	\$/Unit	Total Cost (\$)
Regrading	<i>12</i>	<i>Acres</i>	<i>250</i>	<i>3000</i>
Rip Roads	26,100	Linear Feet	0.60	15,700
Contour Retention Dam	195,000	Cubic Yards	0.40	78,000
Contour Landfill Dam	33,000	Cubic Yards	0.40	13,200
Contour Remaining Areas	125	Acres	1,650.00	206,300
Move and Spread Topsoil	129	Acres	2,800.00	361,200
Subtotal				674,400
Revegetation				
Purchase Fertilizer	138	Acres	40.00	5,500
Purchase Seed Mix	138	Acres	<i>180</i> <del>110.00</del>	15,200
Broadcast Seed and Fertilizer	138	Acres	140.00	19,300
Scarify Seed Into Ground	138	Acres	12.00	1,700
Subtotal				41,700
Totals				1,568,000
Contingency (10%)				156,800
TOTAL RECLAMATION COST (1988 Dollars)				1,725,000
TOTAL RECLAMATION COST (1993 Dollars) @ 2.3% Annual Inflation				1,933,000